

Interview Questions Answers

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A in o. Which of the following screw thread is used for power transmission in one direction only.

- A. Acme threads
- B. Square threads
- C. Buttress threads
- D. Multiple threads

Ans:

Option C

View All Answers

Question - 2:

The resistance to fatigue of a material is measured by

- A. elastic limit
- B. Young's modulus
- C. ultimate tensile strength
- D. endurance limit

Option D

View All Answers

Question - 3:

The pipe joint mostly used for pipes carrying water at low pressures is

- A. socket joint B. nipple joint
- C. union joint
- D. spigot and socket joint

Ans:

Option A

View All Answers

Question - 4:

When a nut is tightened by placing a washer below it, the bolt will be subjected to

- A. tensile stress
- B. compressive stress
- C. shear stress
- D. none of these

Ans:

Option A

View All Answers

Question - 5:

In unilateral system of tolerance, the tolerance is allowed on

- A. one side of the actual size
- B. one side of the nominal size
- C. both sides of the actual size
- D. both sides of the nominal size

Option B

View All Answers



Question - 6:
The material used for brake lining should have coefficient of friction. A. low P. bigh
B. high
Ans:
Option B View All Answers
Tien an anismas
Question - 7:
A column is known as a long column if the slenderness ratio is
A. 40 B. 50
C. 70
D. 100
Ans:
Option D
<u>View All Answers</u>
Question - 8:
In an ordinary bolt, the effect of the impulsive loads applied axially is concentrated on the cross-sectional area at the root of the threads.
A. Yes
B. No
Ans:
Option A
View All Answers
Question - 9:
When the bearing is subjected to large fluctuations of load and heavy impacts, the bearing characteristic number should be the bearing modulus. A. 5 times
B. 10 times
C. 15 times D. 20 times
Ans:
Option C
Option C
Option C View All Answers Question - 10: Circumferential joint in boilers is used to get the required length of a boiler.
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Option C View All Answers Question - 10: Circumferential joint in boilers is used to get the required length of a boiler. A. True B. False Ans: Option A View All Answers Question - 11: A locking device extensively used in marine type connecting rod ends is a A. jam nut B. castle nut C. sawn nut D. ring nut Ans: Option D View All Answers Question - 12:
Option C View All Answers Question - 10: Circumferential joint in boilers is used to get the required length of a boiler. A. True B. False Ans: Option A View All Answers Question - 11: A locking device extensively used in marine type connecting rod ends is a A, jam nut B. castle nut C. sawn nut D. ring nut Ans: Option D View All Answers Question - 12: Soderberg relation is based on of the material whereas all other failure relation for dynamic loading are based on ultimate strength of the material.
Option C View All Answers Circumferential joint in boilers is used to get the required length of a boiler. A. True B. False Ans: Option A View All Answers Cuestion - 11: A locking device extensively used in marine type connecting rod ends is a A. jam nut B. castle nut C. sawn nut D. ring nut Ans: Option D View All Answers Cuestion - 12: Soderberg relation is based on of the material whereas all other failure relation for dynamic loading are based on ultimate strength of the material. A. elastic strength B. yield strength
Option C View All Answers Question - 10: Circumferential joint in boilers is used to get the required length of a boiler. A. True B. False Ans: Option A View All Answers Question - 11: A locking device extensively used in marine type connecting rod ends is a A. jam nut B. castle nut C. sawn nut D. ring nut Ans: Option D View All Answers Question - 12: Soderberg relation is based on of the material whereas all other failure relation for dynamic loading are based on ultimate strength of the material. A. elastic strength B. yield strength C. shear strength
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Option C View All Answers Cuestion - 10: Circumferential joint in boilers is used to get the required length of a boiler. A. True B. False Ans: Option A View All Answers Cuestion - 11: A locking device extensively used in marine type connecting rod ends is a A. jam nut B. castle nut C. sawn nut D. ring nut Ans: Option D View All Answers Cuestion - 12: Soderherg relation is based on of the material whereas all other failure relation for dynamic loading are based on ultimate strength of the material. A. elastic strength B. yield strength C. shear strength Ans:

A transmission shaft includes

A. counter shaft



B. line shaft

C. over head shaft

D. all of these

Ans:

Option D

View All Answers

Question - 14:

A steel containing more than 0.8% carbon is known as eutectoid steel.

A. Yes

B. No

Ans:

Option B

View All Answers

Question - 15:

The radial distance of a tooth from the pitch circle to the top of the tooth is called

A. dedendum

B. addendum

C. clearance

D. working depth

Ans:

Option B

View All Answers

Question - 16:

The difference between the tooth space and the tooth thickness as measured on the pitch circle, is called

A. working depth

B. clearance

C. face width

D. backlash

Ans:

Option D

View All Answers

The load cup of a screw jack is made separate from the head of the spindle to

A. enhance the load carrying capacity of the jack

B. reduce the effort needed for lifting the working load C. prevent the rotation of load being lifted

D. reduce the value of frictional torque

Ans:

Option C

View All Answers

Question - 18:

A screw is said to be over hauling screw, if its efficiency is

A. less than 50%

B. more than 50%

C. equal to 50%

D. none of these

Ans:

Option B

View All Answers

Question - 19:

When screw threads are to be used in a situation where power is being transmitted in one direction only, then the screw threads suitable for this will be

A. square threads

B. acme threads

C. knuckle threads

D. buttress threads

Option D

View All Answers

Question - 20:



A sliding bearing which operates without any lubricant present, is called

A. zero film bearing
B. boundary lubricated bearing

C. hydrodynamic lubricated bearing

D. hydrostatic lubricated bearing

Option A

View All Answers

Question - 21:

The backlash for spur gears depends upon

A. module

B. pitch line velocity

C. tooth profile

D. both (a) and (b)

Ans:

Option D

View All Answers

Question - 22:

In second type of levers,

A. load is in between the fulcrum and effort

B. effort is in between the fulcrum and load

C. fulcrum is in between the load and effort

D. none of these

Ans:

Option A

View All Answers

Question - 23:

The square threads are not so strong as V-threads but they offer less frictional resistance to motion than Whitworth threads.

A. Correct

B. Incorrect

Option A

View All Answers

Question - 24:

In a gear, having involute teeth, the normal to the involute is a tangent to the

A. pitch circle

B. base circle

C. addendum circle

D. dedendum circle

Option B

View All Answers

Question - 25:

Screws jacks have multiple threads.

A. Agree

B. Disagree

Ans:

Option B

View All Answers

Question - 26:

When two non-intersecting and non-coplaner shafts are connected by gears, the arrangement is known as

A. spur gearing

B. helical gearing

C. bevel gearing

D. spiral gearing

Option D

View All Answers

Question - 27:



The size of a gear is usually specified by

A. pressure angle B. pitch circle diameter

circular pitch

D. diametral pitch

Option B

View All Answers

Question - 28:

An open belt drive is used when

- A. shafts are arranged parallel and rotate in the opposite directions
- B. shafts are arranged parallel and rotate in the same directions
- C. shafts are arranged at right angles and rotate in one definite direction
- D. driven shaft is to be started or stopped whenever desired without interferring with the driving shaft

Ans:

Option B

View All Answers

Question - 29:

The number of slots in a 25 mm castle nut is

B. 4

C. 6 D. 8

Ans:

Option C

View All Answers

Question - 30:

For unequal width of butt straps, the thickness of butt straps are

A. 0.75 t for wide strap on the inside and 0.625 t for narrow strap on the outside

B. 0.75 t for narrow strap on the inside and 0.625 t for wide strap on the outside

C. 0.75 t for both the straps on the inside and outside

D. 0.625 t for both the straps on the inside and outside

Option A

View All Answers

Question - 31:

Which of the following material has the maximum ductility?

A. Mild steel

B. Copper C. Zinc

D. Aluminium

Ans:

Option A

View All Answers

Question - 32:

The rolling contact bearings are known as

A. thick lubricated bearings

B. plastic bearings

C. thin lubricated bearings

D. antifriction bearings

Ans:

Option D

View All Answers

Question - 33:

Which of the following statement is correct?

- A. The toughness of a material increases when it is heated.
- B. The shear stress in a beam varies from zero at the neutral surface and maximum at the outer fibres.
- C. The stress concentration in static loading is more serious in brittle materials and less serious in ductile materials.
- D. The stress concentration in static loading is more serious in ductile materials and less serious in brittle materials.

Option C



View All Answers

Question - 34:

When a load W is suddenly applied to a bar of weight W1, the stress induced in the bar will increase with the increase in weight W1.

B. Incorrect

Ans:

Option B

View All Answers

Question - 35:

The taper on cotter varies from

A. 1 in 15 to 1 in 10

B. 1 in 24 to 1 in 20

C. 1 in 32 to 1 in 24

D. 1 in 48 to 1 in 24

Ans:

Option D

View All Answers

Question - 36:

In a hydrodynamic lubricated bearing

A. there is a thick film of lubricant between the journal and the bearing

B. there is a thin film of lubricant between the journal and the bearing

C. there is no lubricant between the journal and the bearing

D. the lubricant is forced between the journal and the bearing, by external pressure

Ans:

Option A

View All Answers

Question - 37:

In radial cams, the follower moves

A. in a direction perpendicular to the cam axis

B. in a direction parallel to the cam axis

C. in any direction irrespective of cam axis

D. along the cam axis

Ans:

Option A

View All Answers

Question - 38:

In a flange coupling, the flanges are coupled together by means of

A. bolts and nuts B. studs

C. headless taper bolts

D. none of these

Ans:

Option A

View All Answers

Question - 39:

The toughness of a material ____ ____ when it is heated.

A. increases

B. decreases

C. does not change

Ans:

Option B

View All Answers

Question - 40:

Surface endurance limit of gear material is dependent upon its

A. elastic strength

B. yield strength

C. brinell hardness number

D. toughness

Ans:



Option C

View All Answers

Question - 41:

In leaf springs, the longest leaf is known as

A. lower leaf

B. master leaf

C. upper leaf

D. none of these

Ans:

Option B

View All Answers

Question - 42:

Stress concentration is caused due to

A. variations in load acting on a member

B. variations in properties of materials in a member

C. abrupt change of cross-section

D. all of these

Ans:

Option C

View All Answers

Question - 43:

When a bolt is subjected to shock loading, the resilience of the bolt should be considered in order to prevent breakage at the

A. head

B. shank

C. thread

D. middle

Ans:

Option C

View All Answers

Question - 44:

According to Indian standard specifications, 100 H6/g5 means that the

A. actual size is 100 mm

B. basic size is 100 mm

C. difference between the actual size and basic size is 100 mm

D. none of the above

Ans:

Option B

View All Answers

Question - 45:

A crankshaft is a shaft.

A. transmission

B. machine

Ans:

Option B

View All Answers

Question - 46:

The application of third type levers is found in

A. handle of a hand pump

B. hand wheel of a punching press

C. lever of a loaded safety valve

D. a pair of tongs

Ans:

Option D

View All Answers

Question - 47:

A locking device in which the bottom cylindrical portion is recessed to receive the tip of the locking set screw, is called

A. castle nut

B. jam nut

C. ring nut

D. sawn nut



Ans:

Option C

View All Answers

Question - 48:

The velocity of sliding the distance of the point of contact from the pitch point.

A. is directly proportional to

B. is inversely proportional to

is equal to cos Phi multiplied by

D. does not depend upon

Option A

View All Answers

Question - 49:

The ball bearings are provided with a cage

A. to reduce friction

B. to facilitate slipping of balls

C. to prevent the lubricant from flowing out

D. to maintain the balls at a fixed distance apart

Option D

View All Answers

Question - 50:

The value of stress concentration factor depends upon

A. material of the part

B. geometry of the part

C. material and geometry of the part

D. none of these

Ans:

Option C

View All Answers

Question - 51:

In order to obtain the bolts of uniform strength, an axial hole is drilled through the head as far as the threaded portion such that the area of shank becomes equal to the root area of the thread.

A. True

B. False

Ans:

Option A

View All Answers

Question - 52:

The constant factor in case of R10 series of preferred numbers is

A. 1.06 B. 1.12

C. 1.26 D. 1.58

Ans:

Option C

View All Answers

Question - 53:

Which of the following statement is correct for gears?

A. The addendum is less than dedendum

B. The pitch circle diameter is equal to the product of module and number of teeth

The pitch circle is always greater than the base circle

D. all of the above

Option D

View All Answers

Question - 54:

Two shafts A and B under pure torsion are of identical length and identical weight and are made of the same material. The shaft A is solid and the shaft B is hollow. We can say that

A. shaft B is better than shaft A



B. shaft A is better than shaft B C. both the shafts are equally good

Ans:

Option A

View All Answers

Question - 55:

The bearings of heavy series have capacity ___ ___ over the medium series.

A. 10 to 20%

B. 20 to 30%

30 to 40%

D. 40 to 50%

Ans:

Option B

View All Answers

Question - 56:

The maximum normal stress theory is used for

A. brittle materials

B. ductile materials

C. plastic materials
D. non-ferrous materials

Ans:

Option A

View All Answers

Question - 57:

The endurance limit for a mirror polished material will be as compared to unpolished material.

A. same

B. less

C. more

Ans:

Option C

View All Answers

The rolling contact bearings as compared to sliding contact bearings have

A. small overall dimensions

B. accuracy of shaft alignment

C. low starting and low running friction except at very high speeds

D. all of the above

Ans:

Option D

View All Answers

Question - 59:

In a flange coupling, the thickness of flanges is taken as one-half the diameter of shaft.

A. Agree

B. Disagree

Ans:

Option A

View All Answers

Question - 60:

According to Guest's theory, the failure occurs at a point in a member when the maximum shear stress in a bi-axial stress system reaches the shear stress at elastic limit in simple tension test.

A. True

B. False

Ans:

Option A

View All Answers

In order to avoid tearing of the plate at an edge, the distance from the centre line of the rivet hole to the nearest edge of the plate should be equal to (where d = Diameter of rivet hole)

A. d



B. 1.5 d

C. 2 d D. 2.5 d

Ans:

Option B

View All Answers

Question - 62:

Slenderness ratio is the ratio of

A. maximum size of column to minimum size of column

B. width of column to depth of column

C. effective length of column to least radius of gyration of the column

D. effective length of column to width of column

Option C

View All Answers

Question - 63:

Which of the following statement is wrong?

A. The power transmitted by V-belts is less than flat belts for the same coefficient of friction, arc of contact and allowable tension in the belts B. The V-belt drive is used with large centre distance

D. The ratio of driving tensions in V-belt drive is more than flat belt drives

Ans:

Option B

View All Answers

Question - 64:

A sliding bearing in which the working surfaces are completely separated from each other by lubricant is called zero film bearing.

A. True B. False

Ans:

Option B

View All Answers

Question - 65:

The number of rivets in shear shall be equal to the number of rivets in crushing.

A. Correct B. Incorrect

Ans:

Option A

View All Answers

Question - 66:

Screws used for power transmission should have

A. Low efficiency

B. high efficiency

C. very fine threads

D. strong teeth

Ans:

Option B

View All Answers

Question - 67:

When bevel gears connect two shafts whose axes intersect at an angle greater than a right angle and one of the bevel gears has a pitch angle of 90., then they are known as

A. angular bevel gears

B. crown bevel gears

C. internal bevel gears

D. mitre gears

Ans:

Option B

View All Answers

Question - 68:

The sleeve or muff coupling is designed as a

A. dun cylinder

B. thick cylinder



C. solid shaft D. hollow shaft

Ans:

D. hollow shaft View All Answers

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